

CITY OF PORTLAND, OREGON  
 BUREAU OF TRANSPORTATION  
 PRELIMINARY ENGINEER'S ESTIMATE  
 NE Marx Street / 112th Ave LID

185190

PRELIMINARY ENGINEER'S ESTIMATE FOR THE IMPROVEMENT OF THE NORTH HALF OF NE MARX STREET FROM NE 109TH AVENUE TO NE 112TH AVENUE AND NE 112TH AVENUE FROM NE MARX STREET TO 100' SOUTH OF THE NORTH END AT THE COLUMBIA SLOUGH.  
 VALUES IN BLUE ARE PERCENT OF CONTRACT.

##### BID ITEMS #####

NO.	ITEMS OF WORK AND MATERIALS	TOTAL QUANTITY	UNIT	UNIT PRICE	TOTAL AMOUNT
1	MOBILIZATION	1.00	LS	\$ 96,805.32	\$ 96,805.32
2	TEMPORARY PROTECTION & DIRECTION OF TRAFFIC	1.00	LS	\$ 48,402.66	\$ 48,402.66
3	TEMPORARY SIGNS	288.00	SQFT	\$ 23.41	\$ 6,742.08
5	TEMPORARY BARRICADES, TYPE III	10.00	EACH	\$ 199.00	\$ 1,990.00
10	TEMPORARY PLASTIC DRUMS	30.00	EACH	\$ 70.24	\$ 2,107.20
11	TEMPORARY REFLECTIVE PAVEMENT MARKERS	100.00	EACH	\$ 3.51	\$ 351.00
13	TEMPORARY STRIPING	500.00	FOOT	\$ 0.23	\$ 115.00
14	STRIPE REMOVAL	500.00	FOOT	\$ 0.76	\$ 380.00
15	STRIPING & STRIPE REMOVAL MOBILIZATION	1.00	EACH	\$ 403.86	\$ 403.86
19	FLAGGERS	800.00	HOURL	\$ 44.48	\$ 35,584.00
20	TEMPORARY TYPE ORANGE PLASTIC MESH FENCE	1,000.00	FOOT	\$ 2.93	\$ 2,930.00
22	EROSION CONTROL	1.00	LS	\$ 18,151.00	\$ 18,151.00
25	CONSTRUCTION ENTRANCES	2.00	EACH	\$ 1,404.72	\$ 2,809.44
26	SEDIMENT FENCE, SUPPORTED	2,400.00	FOOT	\$ 5.09	\$ 12,216.00
28	INLET PROTECTION	20.00	EACH	\$ 105.35	\$ 2,107.00
29	POLLUTION CONTROL PLAN	1.00	LS	\$ 6,050.33	\$ 6,050.33
32	HASP/CMDP WORKPLANS	1.00	LS	\$ 2,000.00	\$ 2,000.00
42	REMOVAL OF STRUCTURES & OBSTRUCTIONS	1.00	LS	\$ 35,302.91	\$ 35,302.91
43	REMOVAL OF FENCES	786.00	FOOT	\$ 2.87	\$ 2,255.82
44	CLEARING AND GRUBBING	1.00	LS	\$ 12,100.67	\$ 12,100.67
49	GENERAL EXCAVATION	2,196.00	CUYD	\$ 24.58	\$ 53,977.68
53	12 INCH SUBGRADE STABILIZATION	655.00	SQYD	\$ 15.22	\$ 9,969.10
58	SUBGRADE GEOTEXTILE	6,552.00	SQYD	\$ 1.76	\$ 11,531.52
66	TRENCH EXCAVATION, COMMON	1,675.00	CUYD	\$ 20.00	\$ 33,500.00
68	POTHOLE EXCAVATION	5.00	EACH	\$ 250.00	\$ 1,250.00
69	TRENCH FOUNDATION STABILIZATION	168.00	CUYD	\$ 55.02	\$ 9,243.36
70	TRENCH BACKFILL, CLASS B	1,460.00	CUYD	\$ 27.00	\$ 39,420.00
72	STORMWATER PLANTERS	1,639.00	SQFT	\$ 25.00	\$ 40,975.00
74	3 INCH DRAIN PIPE	1,950.00	FOOT	\$ 16.39	\$ 31,960.50
76	6 INCH PIPE, PVC SCHEDULE 40 PERFORATED	117.00	FOOT	\$ 100.00	\$ 11,700.00
78	10 INCH PIPE, HDPE ASTM F714 SDR 26 BEDDING TYPE:D	177.00	FOOT	\$ 29.37	\$ 5,198.49
82	21 INCH PIPE, HDPE ASTM F714 SDR 26 BEDDING TYPE:D	1,552.00	FOOT	\$ 135.00	\$ 209,520.00
86	CONCRETE MANHOLES, 48 INCH, 0-8 FT DEPTH	3.00	EACH	\$ 5,000.00	\$ 15,000.00
88	CONCRETE MANHOLES, 108 INCH, 0-8 FT DEPTH	2.00	FOOT	\$ 9,500.00	\$ 19,000.00
98	CONCRETE INLETS, TYPE G-2	4.00	EACH	\$ 1,521.78	\$ 6,087.12
100	CONCRETE INLETS, TYPE METAL	9.00	EACH	\$ 550.00	\$ 4,950.00
103	CONCRETE INLETS, TYPE BEEHIVE	9.00	EACH	\$ 1,100.00	\$ 9,900.00
107	ADJUSTING BOXES	13.00	EACH	\$ 280.94	\$ 3,652.22
108	CONNECTION TO EXISTING STRUCTURES	2.00	EACH	\$ 3,160.62	\$ 6,321.24
109	STORM SEWER OUTFALL UPGRADE	1.00	EACH	\$ 3,000.00	\$ 3,000.00
112	MINOR ADJUSTMENT OF MANHOLES	3.00	EACH	\$ 790.16	\$ 2,370.48
113	MAJOR ADJUSTMENT OF MANHOLES	3.00	EACH	\$ 1,931.49	\$ 5,794.47
116	SHORING AND DEWATERING	1.00	LS	\$ 5,000.00	\$ 5,000.00
139	AGGREGATE BASE	1,407.00	TON	\$ 29.27	\$ 41,182.89
142	LEVEL 3, 1/2 INCH DENSE, MHMAC MIXTURE	2,319.00	TON	\$ 85.81	\$ 198,993.39
147	EXTRA FOR ASPHALT APPROACHES	19.00	EACH	\$ 567.74	\$ 10,787.06
154	CONCRETE CURBS, STANDARD CURB	2,031.00	FOOT	\$ 18.73	\$ 38,040.63
156	CONCRETE CURBS, THICKENED CURB AND GUTTER	104.00	FOOT	\$ 30.00	\$ 3,120.00
159	CONCRETE DRIVEWAYS, REINFORCED	11,465.00	SQFT	\$ 7.80	\$ 89,427.00
160	CONCRETE WALKS	8,746.00	SQFT	\$ 5.97	\$ 52,213.62
161	MONOLITHIC CURB AND SIDEWALKS	2,165.00	SQFT	\$ 9.66	\$ 20,913.90
196	PAVEMENT BAR, TYPE B	25.00	SQFT	\$ 6.91	\$ 172.75
198	REMOVE & REINSTALL EXISTING SIGNS	1.00	LS*	\$ 1,400.00	\$ 1,400.00
199	SIGN SUPPORT FOOTINGS, BREAKAWAY	1.00	LS*	\$ 1,030.00	\$ 1,030.00
200	SIGNAL POLE MOUNTS	1.00	LS*	\$ 5,850.00	\$ 5,850.00
201	PIPE SIGN SUPPORTS	6.00	LS*	\$ 117.00	\$ 702.00
208	TYPE "R" SIGNS IN PLACE	10.00	SQFT	\$ 27.51	\$ 275.10
231	LAWN SEEDING	1,490.00	SQYD	\$ 5.27	\$ 7,852.30
232	TOPSOIL	344.00	CUYD	\$ 32.66	\$ 11,235.04
233	SOIL CONDITIONER	48.00	CUYD	\$ 45.95	\$ 2,205.60
236	DECIDUOUS TREES, 3 INCH CALIPER	48.00	EACH	\$ 802.60	\$ 38,524.80
249	ADDITIONAL ESTABLISHMENT PERIOD	1.00	YEAR*	\$ 12,677.76	\$ 12,677.76
251	ROOT BARRIER	576.00	FOOT	\$ 13.11	\$ 7,551.36
256	CL-6R CHAIN-LINK FENCE	786.00	FOOT	\$ 18.73	\$ 14,721.78
259	SINGLE MAILBOX SUPPORTS	24.00	EACH	\$ 273.92	\$ 6,574.08

\* Unit Price Shown is on Pound, Each, or Foot Basis as Applicable

TOTAL BID ITEMS

\$ 1,393,576.53

NO.	ITEMS OF WORK AND MATERIALS	TOTAL QUANTITY	UNIT	UNIT PRICE	TOTAL AMOUNT
##### ANTICIPATED ITEMS #####					
2	ADJUST WATER FACILITIES - FIRE HYDRANT	1.00	EACH	\$ 12,000.00	\$ 12,000.00
4	STREET LIGHTING - UPGRADE LUMINAIRES	8.00	EACH	\$ 350.00	\$ 2,800.00
5	STREET LIGHTING - INSTALL ARMS AND LUMINAIRES	1.00	EACH	\$ 550.00	\$ 550.00
6	HEADWALLS AND 36" PIPE	1.00	EACH	\$ 50,000.00	\$ 50,000.00
7	STORMWATER PLANTINGS AND PLANT ESTABLISHMENT	1,639.00	SQFT	\$ 15.00	\$ 24,585.00
11	ASPHALT CEMENT ESCALATION	1.00	LS	\$ 1,000.00	\$ 1,000.00
12	FUEL ESCALATION	1.00	LS	\$ 3,000.00	\$ 3,000.00
14	BOLI FEE PAYMENT	1.00	LS	\$ 1,393.58	\$ 1,393.58
15	CONTRACT CONTINGENCY (REQUIREMENT TO ACCEPT BIDS UP TO 10% OVER	1.00	LS	\$ 139,357.65	\$ 139,357.65

TOTAL ANTICIPATED ITEMS \$ 234,686.23

**SCHEDULE SUMMARY**

BID ITEMS			\$ 1,393,576.53
CONSTRUCTION CONTINGENCY	5% of Bid Items		\$ 69,679.00
SUBTOTAL			\$ 1,463,255.53
ANTICIPATED ITEMS			\$ 234,686.23
<b>TOTAL CONSTRUCTION</b>			<b>\$ 1,697,941.76</b>
PROJECT MANAGEMENT	5% of Bid Items		\$ 70,861.30
DESIGN ENGINEERING	25%	15% of Bid Items	\$ 204,000.00
CONSTRUCTION MANAGEMENT	15%	12% of Bid Items	\$ 170,900.00
SUBTOTAL			\$ 445,761.30
PROJECT ENGINEERING & MANAGEMENT OVERHEAD	72.00% of PM, Eng, and CM		\$ 320,948.13
<b>TOTAL PROJECT ENGINEERING &amp; MANAGEMENT</b>			<b>\$ 766,709.43</b>
RIGHT-OF-WAY LAND, IMPROVEMENTS, AND DAMAGES			\$ 20,862.07
RIGHT-OF-WAY APPRAISAL, TITLE INSURANCE, AND NEGOTIATION			\$ 81,000.00
RIGHT-OF-WAY CONTINGENCY	30%	of Land, Improve, and Damages	\$ 5,411.79
<b>TOTAL PROJECT RIGHT-OF-WAY</b>			<b>\$ 107,273.86</b>
INFLATION RATE ON CONTRACT	2	Years Inflation 4.2% of Construction	\$ 125,918.45
INFLATION RATE ON PERSONNEL	2	2.0% of Eng & Mgmt	\$ 26,783.89
ESTIMATE CONTINGENCY FOR UNDEFINED OR CHANGE IN SCOPE		20% of Const, Eng & Mgmt, and Inflation	\$ 456,774.21
<b>TOTAL PROJECT CONTINGENCY</b>			<b>\$ 609,476.55</b>
<b>TOTAL PROJECT ESTIMATE</b>			<b>\$ 3,181,401.60</b>